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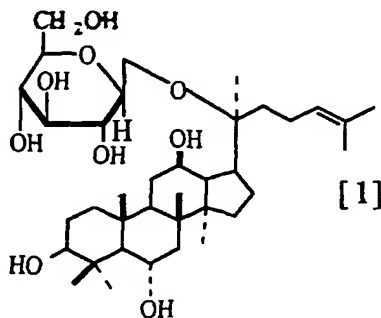
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AN AGENT FOR CONTROLLING BCL-2 EXPRESSION COMPRISING GINSENOSE F1 AS AN ACTIVE COMPONENT



(57) Abstract: The present invention relates to an agent for controlling Bcl-2 expression comprising ginsenoside F1 (20-O- $\beta$ -D-glucopyranosyl-20(S)- protopanaxatriol) represented by the following formula 1 as an active component. [Formula 1]

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2003/002859

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 A61K 31/70**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 : A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
PubMed on line

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	KR 2003-0094523 A (AMOREPACIFIC CORPORATION) 18 December 2003 see entire document.	1-6
P, A	KR 2003-60017 A (AMOREPACIFIC CORPORATION) 12 July 2003 see entire document.	1-6
P, A	KR 2003-0037005 A (AMOREPACIFIC CORPORATION) 12 May 2003 see entire document.	1-6
P, X	Lee EH et al., "Ginsenoside F1 protects human HaCaT keratinocytes from ultraviolet-B-induced apoptosis by maintaining constant levels of Bcl-2" In Journal of Invest Dermatol. 2003 Sep, 121(3), pp607-13.	1-6
A	Zhang YW et al., "Effects of ginsenosides from Panax ginseng on cell-to-cell communication function mediated by gap junctions" In Plata Med., 2001 July, 67(5), pp417-22.	1-6
P, A	Ko SR. et al., "Enzymatic preparation of ginsenosides Rg2, Rh1, and F1" In Chem Pharm Bull(Tokyo), 2003 Apr, 51(4), pp404-8.	1-6

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2003/002859

## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

☒

a sequence listing

☐

table(s) related to the sequence listing

b. format of material

☒

in written format

☒

in computer readable form

c. time of filing/furnishing

☐

contained in the international application as filed

☒

filed together with the international application in computer readable form

☐

furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

PCT/KR2003/002859

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2003-9994523 A	18. 12. 2003	US 2003-0175315 A1 JP 2003-212776 A2 EP 1327434 A1	18. 09. 2003 30. 07. 2003 16. 07. 2003